

IN THE CLAIMS:

Please amend the claims as follows:

B<sup>1</sup>

Claim 1. (Twice Amended) An electromagnetic device comprising at least one magnetic circuit and at least one electric circuit including at least one winding, the magnetic and electric circuits being inductively connected to each other and the device employing a control arrangement to control operation of the device, wherein the control arrangement is adapted to control at least one of frequency, amplitude and phase of electric power to and from the device, the control arrangement comprising means for controlling the magnetic flux in the magnetic circuit, and at least a portion of said at least one winding comprises at least one electric conductor in the form of a cable including an insulating covering including an inner layer having semiconducting properties surrounding the conductor, a solid insulation material surrounding the inner layer and an outer layer having semiconducting properties surrounding the solid insulation layer and wherein the conductor produces an electric field when energized and the inner layer has an electrical conductivity which is lower than the conductivity of the electric conductor but sufficient to cause the inner layer to equalize the electrical field exteriorly of the inner layer.

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Claim 3. (Twice Amended) The device according to claim 1, wherein the magnetic circuit has a controller and the control arrangement is adapted to control the reluctance in the magnetic circuit.

Claim 4. (Twice Amended) The device according to claim 1, wherein the control arrangement is adapted to add a magnetic flux in addition to the magnetic flux in the magnetic circuit.

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cancel

Claim 5. (Twice Amended) The device according to claim 3, wherein a material having a permeability greater than 1 is included in one or more zones of the magnetic circuit and the control arrangement is adapted to control the reluctance in the magnetic circuit by varying the permeability of said one or more such zones.

Claim 6. (Twice Amended) The device according to claim 5, wherein the one or more zones having a variable permeability comprise one or more gaps in the magnetic circuit.

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Claim 22. (Twice Amended) The device according to claim 1, wherein the inner layer and the outer layer have a resistivity in a range of about  $10^{-6} \Omega \text{ cm}$  and about  $100 \text{ k} \Omega \text{ cm}$ .

Claim 23. (Twice Amended) The device according to claim 1, wherein the inner layer and/or the outer layer has a resistance which per length meter of the conductor/insulation system is in a range of about  $50 \mu\Omega$  and about  $5 \text{ M} \Omega$ .

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Claim 32. (Twice Amended) The device according to claim 1, wherein the conductor and its insulation system is designed for high voltage, suitably in excess of about  $10 \text{ kV}$ .

Please add the following new claims:

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37. (New) The device according to claim 22, wherein the resistance is about  $10^{-3} \Omega$  cm.